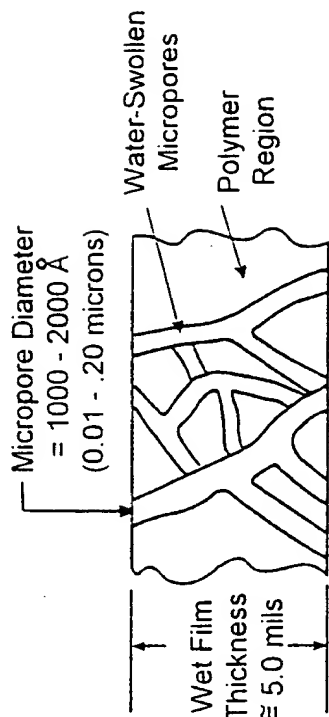
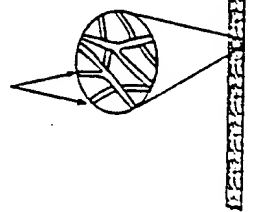


The Gas Permeability and Ionic Conductivity Properties of the Microcomposite Membrane will be Adjusted by Controlling the Concentration of Infiltrated Ion-Conducting Polymer and its Degree of Sulfonation

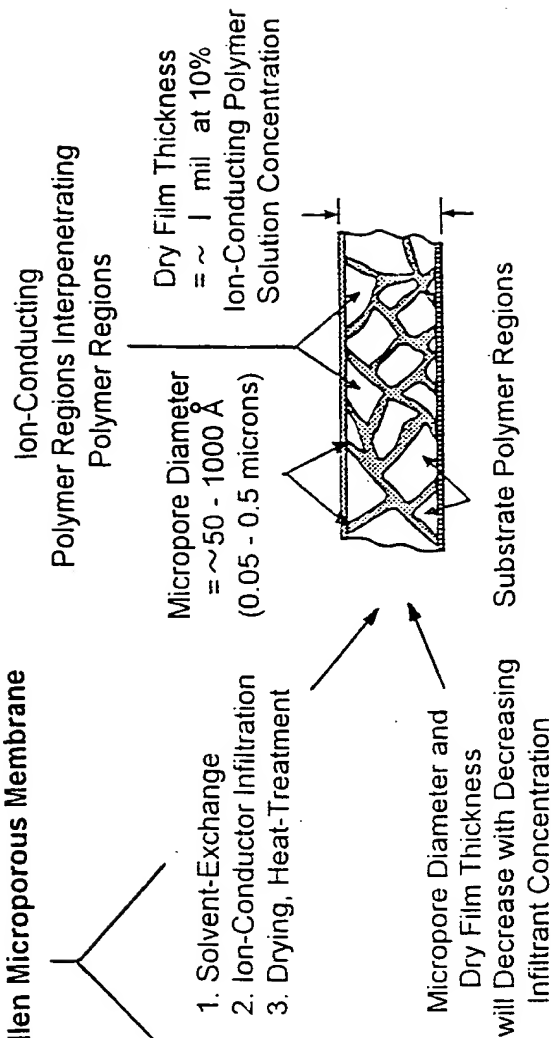


A. Water-Swollen Microporous Membrane

Micropore Diameter
= $1 - 5 \text{ Å}$ (10^{-4} microns)



B. Dried, Heat-Treated, Substrate Membrane



C. Dried, Heat-Treated Microcomposite Membrane Containing ~ 50 Volume Percent Ion-Conducting Polymer

FIG. 1

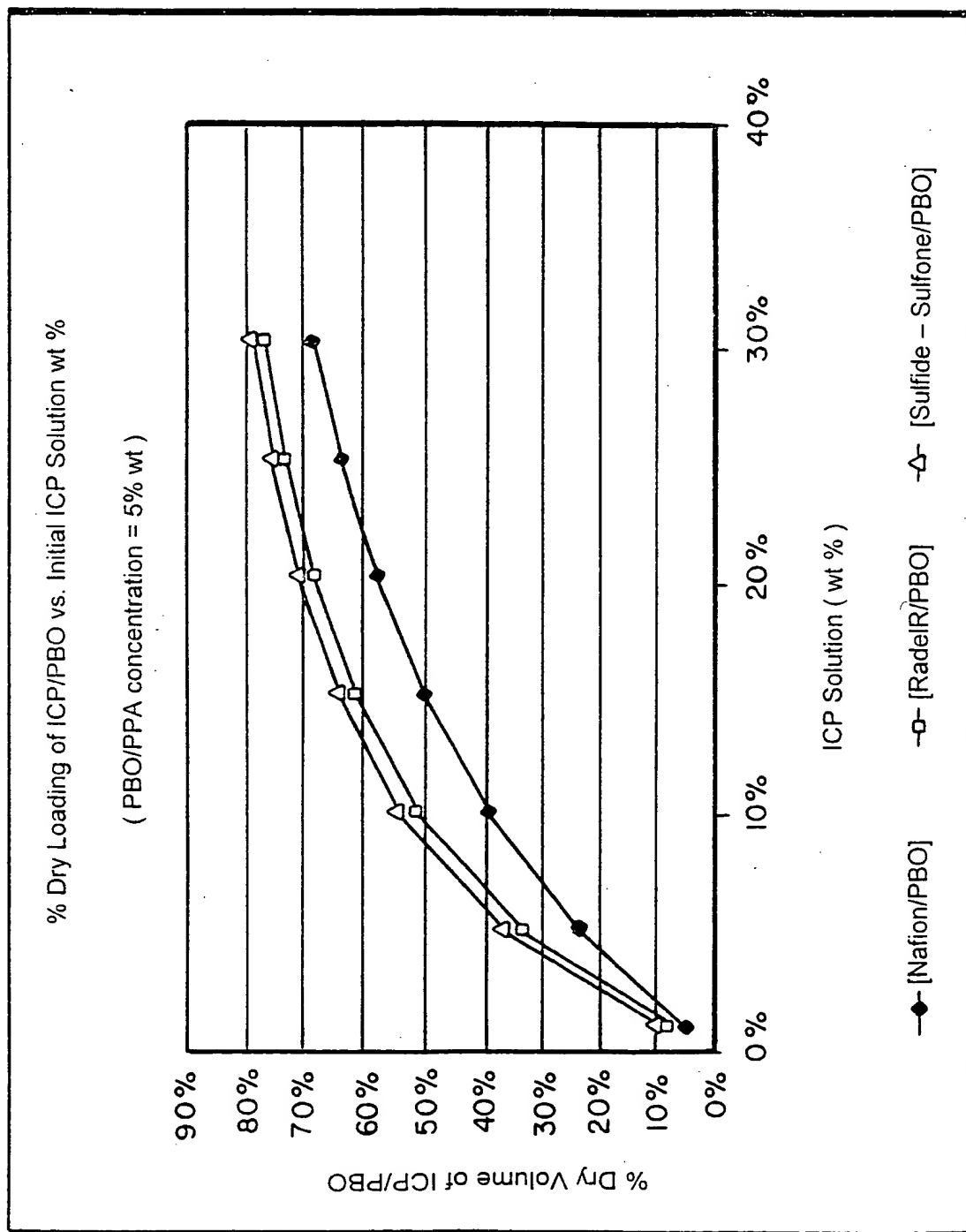


FIG. 2